

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
400								
HOT MIX ASPHALTIC CONCRETE	Asphalt Cement	DSR T-315	DOT-504	(2) 1 pt.	QPL-7	As per GSP-21	Storage Tank	
	Coarse Aggregate for Asphaltic Concrete	Wash 200 T11	DOT-658	45 lbs.	QPL-2	As necessary	Stockpile	
		Gradation T27						
	Fine Aggregate for Asphaltic Concrete	Gradation T11 & T27	DOT-658	20 lbs.	QPL-1	As necessary	Stockpile	
		Clay Lumps T112						
		Sand Equivalent GDT-63						
		Mica Content						
	Mineral Filler	Gradation T11 & T27	DOT-168	10 lbs.	QPL-81	One per 500 tons, per Type, per Source	Silo	
	In-Place Material	Thickness Measurement GDT-42 Method B	DOT-176		One per 1,000 ft, per 2 lanes	Observe 1 per 3 miles, per 2 lanes	Completed Course	
	Hydrated Lime	Physical & Chemical Analysis M303		1 qt.*	QPL-41	One per Quarter	Silo or Tanker	*air-tight container As required by SOP-17
		Gradation T219						
		Chemical T219						
	Release Agent	Slide & Soak Test GDT-113		1 qt.	QPL-39	One per Quarter	Nozzle of Delivery System	
	Complete Mixture	Extractions T11, GDT-38, GDT-73, GDT-83 or GDT-125, T-30	DOT-387	Varies per Mix Type	Minimum 1 per 500 tons	Two QA samples per 5 days production <u>or</u> 5 lots; 1 comparison sample per 10 days	Truck or Roadway	AASHTO T308 (Method A)
		Stripping Test GDT-56		300 g	One per Extraction (Open-Graded Mixes only)		Same as Extraction	For all Asphaltic Concrete “OGFC” & other Mixes where the additive is incorporated at the plant, test at frequency of 1 per Extraction
		Compaction GDT-39, GDT-59 or GDT-73	DOT-386	Core	≥ 500 tons 5 per lot . < 500 tons 1 per 100 tons.		After Compaction	Small quantities may be accepted with less Compaction tests *Each test consists of 3 readings when Nuclear Gauge is used to determine Density
		Smoothness GDT-126	DOT-656		per 1 mile			

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402								
HOT MIX RECYCLED ASPHALTIC CONCRETE	Asphalt Cement	DSR-T-315	DOT-504	(2) 1 pt.	QPL-7	As per GSP-21	Storage Tank	
	Coarse Aggregate for Asphaltic Concrete	Wash 200 <i>T11</i>	DOT-658	45 lbs.	QPL-2	As necessary	Stockpile	
		Gradation <i>T27</i>						
	Fine Aggregate for Asphaltic Concrete	Gradation <i>T11 & T27</i>	DOT-658	20 lbs.	QPL-1	As necessary	Stockpile	
		Clay Lumps <i>T112</i>						
		Sand Equivalent <i>GDT-63</i>						
		Mica Content						
	Mineral Filler	Gradation <i>T11 & T27</i>	DOT-168	10 lbs.	QPL-81	One per 500 tons, per Type, per Source	Silo	
	In-Place Material	Thickness Measurement GDT-42 Method B	DOT-176		One per 1,000 ft, per 2 lanes	Observe 1 per 3 miles, per 2 lanes	Completed Course	
	Hydrated Lime	Physical & Chemical Analysis <i>M303</i>		1 qt.*	QPL-41	One per Quarter	Silo or Tanker	*air-tight container As required by SOP-17
		Gradation <i>T219</i>						
		Chemical <i>T219</i>						
	Relase Agent	Slide & Soak Test GDT-113		1 qt.	QPL-39	One per Quarter	Nozzle of Delivery System	
	Complete Recycled Mixture	Extractions T11, GDT-38, GDT-73, GDT-83 or GDT-125, T-30	DOT-387	Varies per Mix Type	Minimum 1 per 500 tons	Two QA samples per 5 days production <u>or</u> 5 lots; 1 comparison sample per 10 days	Truck or Roadway	AASHTO T308 (Method A)
Abson Recovery GDT-119			1 per week, ≥ 20% RAP			As required by GSP 21		
		Compaction GDT-39, GDT-59 or GDT-73	DOT-386	Core	≥ 500 tons 5 per lot . < 500 tons 1 per 100 tons.		After Compaction	Small quantities may be accepted with less Compaction tests *Each test consists of 3 readings when Nuclear Gauge is used to determine Density
		Smoothness GDT-126	DOT 656	per 1 mile				
403								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
HOT IN-PLACE RECYCLED ASPHALTIC CONCRETE	Asphalt Cement Rejuvenation Agent	ASTM D4552			Supplier Certification			
	Asphalt Cement	DSR-T-315	DOT-504	(2) 1 pt.	QPL-7	One per 75,000 gal., per Source	Before mixing	
	Hot Mix Asphaltic Concrete produced at asphalt plant (if incorporated)							
	Asphalt Cement	DSR-T-315	DOT-504	(2) 1 pt.	QPL-7	As per GSP-21	Storage Tank	
	Coarse Aggregate for Asphaltic Concrete	Wash 200 T11	DOT-658	45 lbs.	QPL-2	As necessary	Stockpile	
		Gradation T27						
	Fine Aggregate for Asphaltic Concrete	Gradation T11 & T27	DOT-658	20 lbs.	QPL-1	As necessary	Stockpile	
		Clay Lumps T112						
		Sand Equivalent GDT-63						
		Mica Content						
	Mineral Filler	Gradation T11 & T27	DOT-168	10 lbs.	QPL-81	One per 500 tons, per Type, per Source	Silo	
	In-Place Material	Thickness Measurement GDT-42 Method B	DOT-176		One per 1,000 ft, per 2 lanes		Completed Course	
	Hydrated Lime	Physical & Chemical Analysis M303		1 qt.*	QPL-41	One per Quarter	Silo or Tanker	*air-tight container As required by SOP-17
		Gradation T219						
		Chemical T219						
	Complete Mixture	Extractions T11, GDT-38, GDT-73, GDT-83 or GDT-125, T30	DOT-387	Varies per Mix Type	Minimum 1 per 500 tons	Two QA samples per 5 days production <u>or</u> 5 lots; 1 comparison sample per 10 days	Truck or Roadway	AASHTO T308 (Method A)
		Stripping Test GDT-56		300 g	One per Extraction (Open-Graded Mixes only)		Same as Extraction	For all Asphaltic Concrete "OGFC" & other Mixes where the additive is incorporated at the plant, test at frequency of 1 per Extraction
	Virgin Aggregate	Gradation T27	DOT-658	35 lbs.	QPL-1 or QPL-2	As Needed		
		Wash 200 T11						

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					ACCEPTANCE	QUALITY ASSURANCE		
	Complete Hot in Place Recycled Mix	Extractions <i>T11, GDT-38, GDT-73, GDT-83 or GDT-125</i>	DOT-387	Varies per Mix Type	Minimum 1 per 500 tons	Two QA samples per 5 days production <u>or</u> 5 lots; 1 comparison sample per 10 days	Truck or Roadway	AASHTO T308 (Method A)
		Compaction <i>GDT-39, GDT-59 or GDT-73</i>	DOT-382	Core	≥ 500 tons 5 per lot . < 500 tons 1 per 100 tons.		After Compaction	Small quantities may be accepted with less Compaction tests *Each test consists of 3 readings when Nuclear Gauge is used to determine Density
		Smoothness <i>GDT-126</i>	DOT 656	per 1 mile			One per day from Roadway	
		Density, Stability & Flow <i>T245</i>	DOT-658					
		Maximum Theoretical Gravity <i>T209</i>						
		Extractions <i>GDT-38 & GDT-83</i>						
		Penetration <i>T49</i>						
		Percent Voids <i>T269</i>						
405								
HOT ASPHALTIC VULCANIZED RUBBER SEAL	Asphalt Cement	DSR-T-315	DOT-504M	1 qt.	QPL-7	One per 5 days of production	Distributor (before application)	
	Vulcanized Rubber				Certified Mill Test Report			
	Coarse Aggregate	Wash 200 <i>T11</i>	DOT-658	45 lbs.	QPL-2		Stockpile	
		Gradation <i>T27</i>						
412								
BITUMINOUS PRIME	Cutback Asphalt	Viscosity <i>T201</i>	DOT-503	1 qt.	QPL-7	one per project	Distributor	
	Cutback Asphalt Emulsion	Viscosity <i>T72</i>	DOT-503	1 qt.	QPL-7 & Visual Inspection	one per project	Distributor	
413								
BITUMINOUS TACK COAT	Asphalt Cement	DSR-T-315	DOT-504M	(2) 1 pt.	QPL-7	One per 7 days of placement SR. Two per 7 days placement Interstate.	Distributor (before application)	
		GDT-57		6 inch core				as requirey

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					ACCEPTANCE	QUALITY ASSURANCE		
	Emulsified Asphalt	Viscosity T59	DOT-325M	1 gal plastic	QPL-7	One per 5 days of placement	Distributor (before application)	
		GDT-57		6 inch core				as requirey
414								
HOT ASPHALT RUBBER SEAL FOR STRESS RELIEF	Asphalt Cement	DSR-T-315			QPL-7 & Visual Inspection			
	Ground Tire Rubber		DOT-658		Certified Mill Test Report			
	Coarse Aggregate	Wash 200 T11	DOT-658	45 lbs.	QPL-2	As necessary	Stockpile	
		Gradation T27						
424								
BITUMINOUS SURFACE TREATMENT	Asphalt Cement	DSR-T-315	DOT-504M	(2) 1 pt.	QPL-7	1 per project	Distributor	
	Emulsified Asphalt	Viscosity T59 penetration residue sieve	DOT-325M	1 gal. plastic	QPL-7	1 per project	Distributor	
	Coarse Aggregate	Gradation T27			QPL-2, Sections A, B & C	One per size, per Project	Stockpile	
		Minus No.200 Material T11			DOT-658	45 lbs.	One per 500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	
427								
EMULSIFIED ASPHALT SLURRY SEAL	Emulsified Asphalt	Viscosity T59	DOT-503	1 gal.*	QPL-7	One per Project	Storage Tank	*non-metal container
	Hydrated Lime	Physical & Chemical Analysis M303		1 qt.*	QPL-41	One per Project		*air-tight container
		Gradation T219						
		Chemical T219						
	Portland Cement	Physical & Chemical Analysis M85	DOT-175	20 lbs.	QPL-3	One per Project		
		Air Content M85						
		Fineness M85						
		Autoclave M85						
		Compressive Strength M85						
		Vicat T131						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
	Fine Aggregate	Chemical <i>M85</i>	DOT-658	20 lbs.	One per 1,500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-1 Sources, 1 per 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D.	Stockpile	
		Gradation <i>T27</i>						
		Wash 200 <i>T11</i>						
	Water	Physical & Chemical Analysis <i>T26</i>	DOT-088	1 qt.*	One per unpotable Source		Enough in advance so results are known before use	*non-metal container
	In-Place Material	Extraction <i>GDT-38, GDT-83 or GDT-125, T30</i>		1 gal.	One per week, per truck		From Distributor	AASHTO T308 (Method A)
428								
MICRO- SURFACING	Emulsified Asphalt	Viscosity <i>T59</i>	DOT 325	1 gal.*	QPL-7	One per Project	Before mixing	*non-metal container
	Diluted Emulsion Tack	Residue by Evaporation <i>T59</i>	DOT 325	1 gal.*	One per 5 days of production		Distributor	*non-metal container
	Hydrated Lime	Physical & Chemical Analysis <i>M216</i>	DOT 325	1 qt.*	QPL-41	One per Project		*air-tight container
	Portland Cement	Physical & Chemical Analysis <i>M85</i>		20 lbs.	QPL-3	One per Project		
	Aggregate	Moisture Content <i>GDT-40</i>		2000 g		One per 5 days of production	Stockpile	
		Gradation <i>T27</i>	DOT-658	20 lbs.	One per 500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-2 Sources, as needed, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	Stockpile	
		Minimum No. 200 <i>T11</i>						
		Sand Equivalent GDT-63						
	In-Place Material	Extraction <i>GDT-125</i>		Minimum: 2000 g		Two per 1 day of production	Paver	
Gradation <i>GDT-3, T30</i>								
430								
PORTLAND CEMENT CONCRETE	Concrete	Compressive Strength <i>GDT-35 & T22</i>	DOT-319	6" X 12" cylinders	Three sets of 4 cylinders per lot		During placement operations at Roadway	

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PAVEMENT		Air Content GDT-26	DOT-176		Air, Slump & mix temp. when cylinders are made & as necessary for control			Minimum of 3 per day by Contractor
		Slump GDT-27						Minimum of 3 per day by Contractor
		Mix Temperature GDT-122						
		Thickness GDT-31		4" core	As per Section 430.06 of the Specifications		Roadway	
	Portland Cement	Air Content T137	DOT-175	10 lbs.	QPL-3	One per 2,000 tons, per Source	Jobsite storage	
		Fineness M85						
		Autoclave M85						
		Compressive Strength M85						
		Vicat T131						
		Chemical M85						
	Portland Pozzolan Cement	Air Content T137	DOT-175	10 lbs	QPL-3	One per 2,000 tons, per Source	Jobsite storage	
		Fineness M240						
		Autoclave M240						
		Compressive Strength M240						
		Vicat T131						
		Chemical M240						
	Curing Agent	Specifications for Liquid Membrane Curing M148	DOT-168	1 qt.	QPL-16 or pre- inspection by Central Lab Personnel		Jobsite storage	As required by SOP-17
		Paper Mats, Plastic Specifications		1 yd ²	Pre-inspected by Central Lab Personnel			
	Air- Entrainment Admixtures	Air-Entraining Admixtures for Concrete M154	DOT-175	1 qt.	QPL 13	1 per 7 production days, per source		Jobsite storage
	Cemical Admixtures	chemical admixtures for Concrete M194	DOT-175	1 qt.	QPL 14	1 per 7 production days, per source		Jobsite storage
	Fly Ash	Fineness M295	DOT-175	10 lbs.	QPL-30	One per 2,000 tons, per Source	Jobsite storage	
		Activity M295						
		Soundness M295						
		Density M295						
		Chemical M295						
	Slag	Fineness M302	DOT-175	10 lbs.	QPL-30	One per 2,000 tons, per Source	Jobsite storage	
		Activity M302						
		Air Content M302						
		Density M302						

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					ACCEPTANCE	QUALITY ASSURANCE		
	Steel Bars for Reinforcement	Chemical <i>M302</i>	DOT-166	1 pc @ 24" per size	QPL-12 & QPL-61 w/Certified Mill Test Reports.	Random sampling at Fabricator	Supplier,Fabricator or Jobsite storage	
		Number <i>M31M</i>						
		Weight <i>M31M</i>						
		Dimensions <i>M31M</i>						
		Deformation Spacing <i>M31M</i>						
		Height & Gap <i>M31M</i>						
		Tensile Strength <i>T244</i>						
		Yield Strength <i>T244</i>						
		Elongation <i>T244</i>						
		Bend Test <i>T285</i>						
		Chemical <i>M31M</i>						
	Steel Wire for Reinforcement	Size <i>M32M</i>	Certification	1 pc @ 24" per size/dia	Certified Mill Test Report	Random sampling	Jobsite storage and/or producer stock	
		Diameter <i>M32M</i>						
		Area <i>M32M</i>						
		Tensile Strength <i>T244</i>						
		Yield Strength <i>T244</i>						
		Area Reduction <i>T244</i>						
		Bend Test <i>M32M</i>						
	Welded Steel Wire Fabric for Reinforcement	Size <i>M55M</i>	Certification	2' X 2'	QPL-55 w/Certified Mill Test Report	Random sampling	Jobsite storage and/or producer stock	
		Diameter <i>M55M</i>						
		Area <i>M55M</i>						
		Tensile Strength <i>T244</i>						
		Yield Strength <i>T244</i>						
		Area Reduction <i>T244</i>						
		Bend Test <i>M55M</i>						
		Weld Shear Strength <i>M55M</i>						
		Width <i>M55M</i>						
		Length <i>M55M</i>						
		Spacing <i>M55M</i>						
	Dowel Bars	Number <i>M31M</i>	DOT-166A	3 pcs. @ 18" long per size	QPL-43 w/Certified Mill Test Report		Jobsite storage, prior to use	*N/A for Plain Dowel Bars
		Weight <i>M31M</i>						
		Dimensions <i>M31M</i>						
		Height & Gap <i>M31M*</i>						
		Tensile Strength <i>T244</i>						
		Yield Strength <i>T244</i>						
		Elongation <i>T244</i>						
		Bend Test <i>T285</i>						
		Chemical <i>M31M</i>						
		Coating <i>853.08</i>						
	Tie Bars	Number <i>M31M</i>	DOT-166	3 pcs. @ 30"	QPL-12 & QPL 61		Jobsite storage, prior to	

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		Weight M31M		long per size			use	
		Dimensions M31M						
		Deformation Spacing M31M						
		Height & Gap M31M*						
		Tensile Strength T244						
		Yield Strength T244						
		Elongation T244						
		Chemical M31M						
	Dowel Bars & Tie Bars Baskets	As Specified	DOT-166A	6 bars in basket assembly	One per Project	One per Project	Jobsite storage, prior to use	
	Multi-Piece tie Bars	As Specified	DOT- 166	Complete Assembly*	As per Section 430.2.E of the Specifications	One per Project	Jobsite storage, prior to use	*2 pieces of deformed reinforcing steel (3' long each) with coupler assembled
	Coarse Aggregate	Gradation T27	DOT-658	45 lbs.	One per 1,500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-2 Sources, 1 per 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	Belt & Stockpile	
		Wash 200 T11						
	Fine Aggregate	Gradation T27	DOT-658	20 lbs.	One per 1,500 tons based upon QPL-1, except for Section D, Stockpile Basis, Sources. Material from Section D must be sampled.	QPL-1 Sources, 1 per 20,000 tons, except for Section D, Stockpile Basis, Sources. The Department will perform acceptance tests on materials delivered from Section D Sources.	Belt & Stockpile	
		Minus No. 200 T11						
		Sand Equivalent GDT-63						
	Silicone Sealant	Tensile Stress ASTM D412	DOT-168		QPL-66 or 1 sample per batch, per Type			
		Durometer ASTM D2240						
		Bond GDT-106						
		Tack Free Time GDT-106						
		Extrusion GDT-106						
		Non-Volatile GDT-106						

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	Bond Breakers –Rods	Specific Gravity <i>ASTM D792</i>						
		Adhesion <i>GDT-106</i>						
		Resistance <i>ASTM C793</i>						
		Density <i>ASTM D1622</i>	DOT-168	6 ft	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment		Stock	
		Tensile Strength <i>ASTM D1623</i>						
		Water Absorption <i>ASTM C1061</i>						
	Bond Breakers –Tape	Thickness	DOT-168		Certified Mill Test Report			
	Epoxy Adhesive	Pot Life <i>GDT-58</i>	DOT-168	1 kit	QPL-15 or 1 sample per batch, per Type			
		Bond Strength <i>GDT-58</i>						
		Shelf Life						
		Condition						
	Water	Quality of Water to be Used in Concrete <i>T26</i>	DOT-088	1 qt.*	One per unpotable Source, per month		Prior to use	*non-metal container
433								
REINFORCED CONCRETE APPROACH SLABS	Concrete	Compressive Strength <i>GDT-35</i> & <i>T22</i>	DOT-319		One set of 50 yd ³ daily for each structure		Placement site	
		Air Content <i>GDT-26</i>			Air, slump & mix temp. when cys. Are made & as judge necessary to insure adequate control		Placement site	
		Slump <i>GDT-27</i>						
		Mix Temperature <i>GDT-122</i>						
	Portland Cement	Air Content <i>T137</i>	DOT-175		QPL-3			
		Fineness <i>M85</i>						
		Autoclave <i>M85</i>						
		Compressive Strength <i>M85</i>						
		Vicat <i>T131</i>						
		Chemical <i>M85</i>						
	Portland Pozzolan Cement	Air Content <i>T137</i>	DOT-175		QPL-3			
		Fineness <i>M240</i>						
		Autoclave <i>M240</i>						
		Compressive Strength <i>M240</i>						
		Vicat <i>T131</i>						
		Chemical <i>M240</i>						
	Fine Aggregate	Gradation <i>T27</i>	DOT-658		One per 1,500 tons	QPL-1 Sources, 1		

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		Sand Equivalent GDT-63			based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	per 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
	Coarse Aggregate	Wash 200 T11	DOT-658		One per 1,500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-2 Sources, 1 per 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
		Gradation T27						
	Steel Bars for Reinforcement	Number M31M	DOT-166	1 pc @ 24" per size	QPL-12 & QPL-61 w/Certified Mill Test Reports.	Random sampling at Fabricator	Supplier,Fabricator or Jobsite storage	
		Weight M31M						
		Dimensions M31M						
		Deformation Spacing M31M						
		Height & Gap M31M						
		Tensile Strength T244						
		Yield Strength T244						
		Elongation T244						
		Bend Test T285						
		Chemical M31M						
	Fly Ash	Fineness M295	DOT-175	10 lbs.	QPL-30			
		Activity M295						
		Soundness M295						
		Density M295						
		Chemical M295						
	Slag	Fineness M302	DOT-175	10 lbs.	QPL-30			
		Activity M302						
		Air Content M302						
		Density M302						
		Chemical M302						
	Silicone Sealant	Tensile Stress ASTM D412	Misc. DOT- 168		QPL-66 or 1 sample per batch, per Type			
		Durometer ASTM D2240						
		Bond GDT-106						

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					ACCEPTANCE	QUALITY ASSURANCE		
		Tack Free Time GDT-106						
		Extrusion GDT-106						
		Non-Volatile GDT-106						
		Specific Gravity ASTM D792						
		Adhesion GDT-106						
		Resistance ASTM C793						
	Bond Breakers –Rods	Density ASTM D1622	Misc. DOT- 168	6 ft	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment		Stock	
		Tensile Strength ASTM D1623						
		Water Absorption ASTM C1061						
	Bond Breakers –Tape	Thickness	Misc. DOT- 168		Certified Mill Test Report			
	Epoxy Adhesive	Pot Life GDT-58	Misc. DOT- 168		QPL-15 <u>or</u> 1 sample per batch, per Type			
		Bond Strength GDT-58						
		Shelf Life						
		Condition						
434								
SAND ASPHALT PAVED DITCHES	Concrete	Compressive Strength GDT-35 & T22	DOT-319	2 cylinders	One set per each 100 cumulative yd ³ <u>or</u> 1 set per week, per Plant		During pouring operation	
		Air Content GDT-26 or GDT-32						
		Slump GDT-27						
	Asphalt Complete Mixture	Specification Requirements GDT-38 or GDT-83, GDT 125, T30		25 lbs.	Two per week		Truck or Roadway	
	Asphalt Cement	DSR T315	DOT-504	(2) 1 pt.	QPL-7	One per Project	Before application	
	Fine Aggregate	Gradation T11 or T27	DOT-658	20 lbs.	One per 1,500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-1 Sources, 1 per 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	Stockpile	
		Sand Equivalent GDT-63						
435								
RAPID SETTING CEMENT	Rapid Setting Patching	Flow of Mortar ASTM C109	Misc. DOT- 168		QPL-27 <u>or</u> pre- inspected by Central			

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
CONCRETE END DAMS & PATCHES	Material	Flexural Strength T97			Lab Personnel			
		Compressive Strength ASTM C109 or ASTM C31						
		Adsorption ASTM C140						
		Chlorides T260						
		Shear Bond Freeze-Thaw ASTM C666						
	Epoxy Adhesive	Pot Life GDT-58	Misc. DOT- 168	1 kit	QPL-15 or 1 sample per batch, per Type		Stock	
		Elongation GDT-58						
		Bond Strength GDT-58						
		Hardness ASTM D2240						
		Sag Test T237						
		Wet Bond Test T237						
	Silicone Sealant	Tensile Stress ASTM D412	Misc. DOT- 168		QPL-66 or 1 sample per batch, per Type		Stock	
		Hardness ASTM D2240						
		Bond GDT-106						
		Tack Free Time GDT-106						
		Extrusion GDT-106						
		Non-Volatile GDT-106						
		Specific Gravity ASTM D792						
		Adhesion GDT-106						
		Resistance ASTM C793						
	Bond Breakers –Rods	Density ASTM D1622	Misc. DOT- 168	6 ft	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment		Stock	
		Tensile Strength ASTM D1623						
		Water Absorption ASTM C1061						
	Bond Breakers –Tape	Thickness	Misc. DOT- 168		Certified Mill Test Report			
	Preformed Foam Joint Filler	Specification 822.10	Misc. DOT- 168		QPL-20 Certified Mill Test Report			
436								
ASPHALTIC CONCRETE CURB		NOTE: When placed in conjunction with Pay Item in Section 400, and ingredients are sampled under that Item, no additional samples of AC, CA, FA, or Mineral Filler required.						
	Tack Coat	Specification Requirements T59, DSR T315	DOT-503	1 gal. PLASTIC	QPL-7	One per Project	Before application	

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
	Asphalt Cement	Dynamic Shear TP-5, DSR T315	DOT-504	(2) 1 pt.	QPL-7	One per Project	Before application	
	Mineral Filler	Gradation T11 & T27		10 lbs.	QPL-81	One per 1,000 tons, per Type, per Source	Stock	
	Completed Mix	Specification Requirements GDT-38 or GDT-83,GDT 125, T30	DOT-387 OMR-TM- 159-5	25 lbs.	Two per week		Truck or Roadway	
	Fine Aggregate	Gradation T27	DOT-658		One per 500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	As necessary		
		Sand Equivalent GDT-63 Minus No. 200 T11						
	Coarse Aggregate	Wash 200 T11	DOT-658		One per 500 tons based upon QPL-2, except form Section D, Stockpile Basis Sources; material from Section D must be sampled.	As necessary		
		Gradation T27						
437								
GRANITE CURB	Granite from Unapproved Source	Percent Wear T96		100 lbs.	One per Source		Stock	
	Granite from Approved Source				QPL-2 & Visual Inspection			
438								
PRECAST CONCRETE HEADER CURB	Portland Cement	Air Content T137	DOT-175		QPL-3	One per Quarter, per Source, per District		
		Fineness M85						
		Autoclave M85						
		Compressive Strength M85						
		Vicat T131						
		Chemical M85						
	Portland Pozzolan Cement	Air Content T137	DOT-175					
		Fineness M240						
		Autoclave M240						
		Compressive Strength M240						
		Vicat T131						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
	Fine Aggregate	Chemical <i>M240</i>	DOT-658	20 lbs.	One per 500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-1 Sources, 1 per month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
		Gradation <i>T27</i>						
		Sand Equivalent <i>GDT-63</i>						
	Coarse Aggregate	Wash 200 <i>T11</i>	DOT-658	45 lbs.	One per 1,500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-2 Sources, 1 per month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
		Gradation <i>T27</i>						
	Steel Bars for Reinforcement	Number <i>M31M</i>	DOT-166	1 pc @ 24" per size	QPL-12 & QPL-61 w/Certified Mill Test Reports.	Random sampling at Fabricator	Supplier,Fabricator or Jobsite storage	
		Weight <i>M31M</i>						
		Dimensions <i>M31M</i>						
		Deformation Spacing <i>M31M</i>						
		Height & Gap <i>M31M</i>						
		Tensile Strength <i>T244</i>						
		Yield Strength <i>T244</i>						
		Elongation <i>T244</i>						
		Bend Test <i>T285</i>						
		Chemical <i>M31M</i>						
	Fly Ash	Fineness <i>M295</i>	DOT-175		QPL-30			
		Activity <i>M295</i>						
		Soundness <i>M295</i>						
		Density <i>M295</i>						
		Chemical <i>M295</i>						
	Dowel Bars	Number <i>M31M</i>	DOT-166A		QPL-43 w/Certified Mill Test Report			*N/A for Plain Dowel Bars
		Weight <i>M31M</i>						
		Dimensions <i>M31M</i>						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
		Deformation Spacing M31M*						
		Height & Gap M31M*						
		Tensile Strength T244						
		Yield Strength T244						
		Elongation T244						
		Bend Test T285						
		Chemical M31M						
		Coating 853.08						
439								
PORTLAND CEMENT CONCRETE PAVEMENT (SPECIAL)	Concrete	Compressive Strength GDT-35 & T22	DOT-319	2 cylinders	See NOTE 1		During pouring	Cylinders to be broken in Branch or Central Lab
		NOTE 1: One set per each 350 yd ³ of each Class of Concrete placed daily for each structure, except for Concrete used in Bridge Curb, Handrail or Wall Coping. Two Concrete cylinders shall be fabricated for each cumulative 350 yd ³ or fraction thereof, of Concrete placed per week in each structure. Cylinders shall not be fabricated at one structure to represent Concrete placed in another structure.						
		Air Content GDT-26 or GDT-32		See NOTE 2	When cylinders are made		Placement site	Additional Slump test will be required when Water is added on Project
		Slump GDT-27						
		Mix Temperature GDT-122						
		NOTE 2: Air, Slump & Mix Temperature tests are all required when cylinders are made & as judged necessary to insure adequate control.						
	Portland Cement	Air Content T137	DOT-175	10 lbs.	QPL-3			Jobsite Plants only
		Fineness M85						
		Autoclave M85						
		Compressive Strength M85						
Vicat T131								
Chemical M85								
Portland Pozzolan Cement	Air Content T137	DOT-175	10 lbs.	QPL 3		Jobsite Plants only		
	Fineness M240							
	Autoclave M240							
	Compressive Strength M240							
	Vicat T131							
	Chemical M240							
Fine Aggregate	Gradation T27	DOT-658	20 lbs.	Based upon QPL-1,	QPL-1 Sources, 1			

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
		Sand Equivalent GDT-63 Minus No. 200 T11			except for Section D, Stockpile Basis Sources; material from Section D must be sampled 1 per 500 tons.	per month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
	Coarse Aggregate	Wash 200 T11	DOT-658	30 lbs.	Based upon QPL-2 Sources, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-2 Sources, 1 per month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
		Gradation T27						
	Steel Bars for Reinforcement	Number M31M	DOT-166	1 pc @ 24" per size	QPL-12 & QPL-61 w/Certified Mill Test Reports.	Random sampling at Fabricator	Supplier,Fabricator or Jobsite storage	
		Weight M31M						
		Dimensions M31M						
		Deformation Spacing M31M						
		Height & Gap M31M						
		Tensile Strength T244						
		Yield Strength T244						
		Elongation T244						
		Bend Test T285						
		Chemical M31M						
	Steel Wire for Reinforcement	Size M32M	Certification	1 pc @ 24" per size/dia	Certified Mill Test Report	Random sampling	Jobsite storage and/or producer stock	
		Diameter M32M						
		Area M32M						
		Tensile Strength T244						
		Yield Strength T244						
		Area Reduction T244						
		Bend Test M32M						
	Welded Steel Wire Fabric for Reinforcement	Size M55M	Certification	2' X 2'	QPL-55 w/Certified Mill Test Report	Random sampling	Jobsite storage and/or producer stock	
		Diameter M55M						
		Area M55M						
		Tensile Strength T244						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
		Yield Strength T244						
		Area Reduction T244						
		Bend Test M55M						
		Weld Shear Strength M55M						
		Width M55M						
		Length M55M						
		Spacing M55M						
	Dowel Bars	Number M31M	DOT-166A	3 pcs. @ 18" long per size	QPL-43 w/Certified Mill Test Report		Jobsite Storage, prior to use	*N/A for Plain Dowel Bars
		Weight M31M						
		Dimensions M31M						
		Deformation Spacing M31M*						
		Height & Gap M31M*						
		Tensile Strength T244						
		Yield Strength T244						
		Elongation T244						
		Bend Test M285						
		Chemical M3						
		Coating 853.08						
	Tie Bars	Number M31M	DOT-166	3 pcs. @ 30" long per size	QPL-12 & QPL-61		Jobsite Storage, prior to use	
		Weight M31M						
		Dimensions M31M						
		Deformation Spacing M31M						
		Height & Gap M31M						
		Tensile Strength T244						
		Yield Strength T244						
		Elongation T244						
	Chemical M3							
	Dowel Bar & Tie Bar Baskets	As Specified	DOT-166	6 bars in basket assembly	One per Project, per size		Jobsite Storage, prior to use	
Multi-Piece Tie Bars	As Specified	DOT-166	Complete Assembly*	As per Section 430.2.E of the Specifications	One per Project	Jobsite Storage, prior to use	*2 pieces of deformed reinforcing steel (3' long each) with coupler, assembled	
Fly Ash	Fineness M295	DOT-175	10 lbs.	QPL-30	One per 2,000 tons, per Source	Jobsite storage	Jobsite plants only	
	Activity M295							
	Air Content M295							
	Density M295							
	Chemical M295							
Slag	Fineness M302	DOT-175	10 lbs.	QPL-30	One per 2,000 tons, per Source	Jobsite storage	Jobsite plants only	
	Activity M302							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
		Soundness <i>M302</i>						
		Density <i>M302</i>						
		Chemical <i>M302</i>						
	Silicone Sealant	Tensile Stress <i>ASTM D412</i>	Misc. DOT- 168		QPL-66 or 1 sample per batch, per Type			
		Durometer <i>ASTM D2240</i>						
		Bond <i>GDT-106</i>						
		Tack Free Time <i>GDT-106</i>						
		Extrusion <i>GDT-106</i>						
		Non-Volatile <i>GDT-106</i>						
		Specific Gravity <i>ASTM D792</i>						
		Adhesion <i>GDT-106</i>						
		Resistance <i>ASTM C793</i>						
	Bond Breakers –Rods	Density <i>ASTM D1622</i>	Misc. DOT- 168	6 ft	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment		Stock	
		Tensile Strength <i>ASTM D1623</i>						
		Water Absorption <i>ASTM C1061</i>						
	Bond Breakers –Tape	Thickness	Misc. DOT- 168		Certified Mill Test Report			
	Epoxy Adhesive	Pot Life <i>GDT-58</i>	Misc. DOT- 168		QPL-15			
		Bond Strength <i>GDT-58</i>						
		Shelf Life						
		Condition						
	Water	Quality of Water to be Used in Concrete <i>T26</i>	DOT-088	1 qt.*	One per unpotable Source, per month		Prior to use	*non-metal container
440								
PORTLAND CEMENT CONCRETE SHOULDERS	Portland Cement	Physical & Chemical Analysis <i>M85</i>	DOT-175	10 lbs.	QPL-3	One per 2,000 tons	Jobsite storage	
		Air Content <i>T137</i>						
		Fineness <i>M85</i>						
		Autoclave <i>M85</i>						
		Compressive Strength <i>M85</i>						
		Vicat <i>M131</i>						
		Chemical <i>M85</i>						
	Portland Pozzolan Cement	Air Content <i>T137</i>	DOT-175	10 lbs.	QPL-3	One per 2,000 tons, per source	Jobsite storage	
		Fineness <i>M240</i>						
		Autoclave <i>M240</i>						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
		Compressive Strength M240						
		Vicat T131						
		Chemical M240						
	Water	Quality of Water to be Used in Concrete T26	DOT-088	1 qt.*	One per unpotable source, per month		Prior to use	*non-metal container
	Curing Agent	Specification for Liquid Membrane Curing M148	DOT-168		QPL-16			
	Air-Entrainment Admixtures	Air-Entraining Admixtures for Concrete M154	DOT-168	1 qt.*	QPL-13	1 per 7 production days, per source	Jobsite storage	
	Chemical Admixtures	Chemical Admixtures for Concrete M194	DOT-168	1 qt.*	QPL-14	1 per 7 production days, per source	Jobsite storage	
	Steel Bars for Reinforcement	Number M31M	DOT-166	1 pc @ 24" per size	QPL-12 & QPL-61 w/Certified Mill Test Reports.	Random sampling at Fabricator	Supplier,Fabricator or Jobsite storage	
		Weight M31M						
		Dimensions M31M						
		Deformation Spacing M31M						
		Height & Gap M31M						
		Tensile Strength T244						
		Yield Strength T244						
		Elongation T244						
		Bend Test T285						
		Chemical M31M						
	Steel Wire for Reinforcement	Size M32	Certification	1 pc @ 24" per size/dia	Certified Mill Test Report	Random sampling	Jobsite storage and/or producer stock	
		Diameter M32						
		Area M32						
		Tensile Strength T244						
		Yield Strength T244						
		Area Reduction T244						
	Welded Steel Wire Fabric for Reinforcement	Bend Test M32						
		Size M55M	Certification	2' X 2'	QPL-55 w/Certified Mill Test Report	Random sampling	Jobsite storage and/or producer stock	
		Diameter M55M						
		Area M55M						
		Tensile Strength T244						
		Yield Strength T244						
		Area Reduction T244						
		Bend Test M55M						
		Weld Shear Strength M55M						
		Width M55M						
		Length M55M						
		Spacing M55M						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
	Preformed Joint Filler		Misc. DOT- 168		QPL-20 Certified Mill Test Report			
	Tie Bars	Number <i>M31M</i>	DOT-166	3 bars @ 30" long	QPL-12 & QPL-61		Jobsite storage, prior to use	
		Weight <i>M31M</i>						
		Dimensions <i>M31M</i>						
		Deformation Spacing <i>M31M</i>						
		Height & Gap <i>M31M</i>						
		Tensile Strength <i>T244</i>						
		Yield Strength <i>T244</i>						
		Elongation <i>T244</i>						
		Bend Test <i>T285</i>						
		Chemical <i>M31M</i>						
		Coating <i>853.08</i>						
	Graded Aggregate	Gradation <i>T11</i>	DOT-658	45 lbs.	One per 1,500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-2 Sources, 1 per 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D sources.	Stockpile	*Normally GDT-63 will only be required on Independent Assurance samples of graded aggregate. Also, GDT-2 will normally only be required on Independent Assurance samples on fine aggregate.
		Sand Equivalent <i>GDT-63*</i> Gradation <i>T27</i>						
	Coarse Aggregate	Gradation <i>T27</i>	DOT-658	45 lbs.	One per 1,500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-2 Sources, 1 per 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	Belt or Stockpile	
		Wash 200 <i>T11</i>						
	Fine Aggregate	Gradation <i>T27</i>	DOT-658	20 lbs.	One per 500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-1 Sources, 1 per 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	Belt or Stockpile	
		Minus No. 200 <i>T11</i>						
		Sand Equivalent <i>GDT-63</i>						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
	Concrete	Compressive Strength GDT-35 & T22	DOT-319	6" X 12" cylinders	Three sets of 2 cylinders per Lot		During placement operations at Roadway	
		Air Content GDT-26			Air, slump & mix temp.; when cys. Are made & as judge necessary to insure adequate control.			
		Slump GDT-27						
		Mix Temperature GDT-122						
		Thickness			As per specified Shoulder Type			
	Slag	Fineness M302	DOT-175	10 lbs.	QPL-30	One per 2,000 tons, per source	Jobsite storage	
		Activity M302						
		Air Content M302						
		Density M302						
		Chemical M302						
	Fly Ash	Fineness M295	DOT-175	10 lbs.	QPL-30	One per 2,000 tons, per source	Jobsite storage	
		Activity M295						
		Soundness M295						
		Density M295						
		Chemical M295						
	Silicone Sealant	Tensile Stress ASTM D412	Misc. DOT-168		QPL-66			
		Durometer ASTM D2240						
		Bond GDT-106						
		Tack Free Time GDT-106						
		Extrusion GDT-106						
		Non-Volatile GDT-106						
		Specific Gravity ASTM D792						
		Adhesion GDT-106						
		Resistance ASTM C793						
	Bond Breakers –Rods	Density ASTM D1622	Misc. DOT-168	6 ft	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment			
		Tensile Strength ASTM D1623						
		Water Absorption ASTM C1061						
	Bond Breakers –Tape	Thickness	Misc. DOT-168		Certified Mill Test Report			
	Epoxy Adhesive	Pot Life GDT-58	Misc. DOT-168		QPL-15			
		Bond Strength GDT-58						
		Shelf Life						
		Condition						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
441								
MISCELLANEOUS CONCRETE	Portland Cement	Air Content <i>T137</i>	DOT-175		QPL-3			
		Fineness <i>M85</i>						
		Autoclave <i>M85</i>						
		Compressive Strength <i>M85</i>						
		Vicat <i>T131</i>						
		Chemical <i>M85</i>						
	Portland Pozzolan Cement	Air Content <i>T137</i>	DOT-175		QPL-3			
		Fineness <i>M240</i>						
		Autoclave <i>M240</i>						
		Compressive Strength <i>M240</i>						
		Vicat <i>T131</i>						
		Chemical <i>M240</i>						
	Fine Aggregate	Gradation <i>T27</i>	DOT-658	20 lbs.	One per 500 tons, based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-1 Sources, 1 per month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
		Sand Equivalent <i>GDT-63</i> Minus No. 200 <i>T11</i>						
	Coarse Aggregate	Wash 200 <i>T11</i>	DOT-658	45 lbs.	One per 1,500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-2 Sources, 1 per month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
		Gradation <i>T27</i>						
	Curing Agents	Specification for Liquid Membrane Curing <i>M148</i>	DOT-168		QPL-16			
	Air- Entrainment Admixtures	Air-Entraining Admixtures for Concrete M154	Misc. DOT- 168		QPL-13			
Chemical Admixtures	Chemical Admixtures for Concrete M194	Misc. DOT- 168		QPL-14				
Steel Bars for	Number <i>M31M</i>	DOT-166	1 pc @ 24"	QPL-12 & QPL-61	Random sampling at	Supplier,Fabricator or		

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE			
	Reinforcement	Weight M31M		per size	w/Certified Mill Test Reports.	Fabricator	Jobsite storage		
		Dimensions M31M							
		Deformation Spacing M31M							
		Height & Gap M31M							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Test T285							
		Chemical M31M							
	Steel Wire for Reinforcement	Size M32M	Certification	1 pc @ 24” per size/dia	Certified Mill Test Report	Random sampling	Jobsite storage and/or producer stock		
		Diameter M32M							
		Area M32M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M32M							
	Welded Steel Wire Fabric for Reinforcement	Size M55M	Certification	2' X 2'	QPL-55 w/Certified Mill Test Report	Random sampling	Jobsite storage and/or producer stock		
		Diameter M55M							
		Area M55M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M55M							
		Weld Shear Strength M55M							
		Width M55M							
		Length M55M							
		Spacing M55M							
		<u>Joint Fillers & Sealers</u>							
	Preformed Joint Filler	M153 or M213	Misc. DOT-168	10”	QPL-20		Stock	Sample in accordance with SOP-17	
	Hot Pour Joint Sealers	Penetration GDT-62	Misc. DOT-168	8 lb. kit	Pre-inspected by Central Lab; 1 sample per shipment		Stock		
Flow GDT-62									
Resilience GDT-62									
Bond GDT-62									
Compatibility GDT-62									
Elastomeric Polymer Type Joint Compound	Cone Penetration GDT-15	Misc. DOT-168	1 kit	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment		Stock			
	Solubility GDT-15								
	Resilience GDT-15								
	Flow GDT-15								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
	Preformed Elastic Joint Sealer	Bond GDT-15	Misc. DOT- 168	36"	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment		Stock	
		Tensile Strength ASTM D412						
		Elongation at Break ASTM D412						
		Hardness ASTM D2240						
		Oven Aging ASTM D573						
		Oil Swell ASTM D471						
		Ozone Resistance ASTM D1149						
		Joint Sealer Recovery GDT-47						
		Compression/Deflection GDT-70						
	Water-Blown Urethane Joint Filler	Specification 833.05	Misc. DOT- 168		Certified Mill Test Report			
	Silicone Sealant	Tensile Stress ASTM D412	Misc. DOT- 168		QPL-66 or 1 sample per batch, per Type		Stock	
		Hardness ASTM D2240						
		Bond GDT-106						
		Tack Free Time GDT-106						
		Extrusion GDT-106						
		Non-Volatile GDT-106						
		Specific Gravity ASTM D792						
		Adhesion GDT-106						
		Resistance ASTM C793						
	Bond Breakers – Rods	Density ASTM D1622	Misc. DOT- 168	6 ft	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment		Stock	
		Tensile Strength ASTM D1623						
		Water Absorption ASTM C1061						
	Bond Breakers – Tape	Thickness	Misc. DOT- 168		Certified Mill Test Report			
	Neoprene for Bridge Deck Joint Seal	Specification 833.07	Misc. DOT- 168		Certified Mill Test Report			

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
	Ethylene Propylene Diene Monomer for Bridge Deck Joint Seals	Specification 833.08	Misc. DOT- 168		Certified Mill Test Report			
	Polyurethane Sealant for Inductive Loops	Hardness ASTM D2240	Misc. DOT- 168		QPL-75			
		Tensile Strength ASTM D412						
		Elongation ASTM D412						
		Flexibility						
		Weather Resistance ASTM D822						
	Preformed Foam Joint Filler	Specification 833.2.10	Misc. DOT- 168		Certified Mill Test Report			
	Dowel Bars	Number M31M	DOT-166A	2 bars	QPL-43 w/Certified Mill Test Report	One per Project	Stock	*N/A for Plain Dowel Bars
		Weight M31M						
		Dimensions M31M						
		Deformation Spacing M31M*						
		Height & Gap M31M*						
		Tensile Strength T244						
		Yield Strength T244						
		Elongation T244						
		Bend Test T285						
		Chemical M3						
		Coating 853.08						
	Concrete	Compressive Strength GDT-35 & T22	DOT-319	2 cylinders	One set per each cumulative 100 yd ³ or 1 set per week, per Plant		During placement operations	
		Air Content GDT-26 or GDT-32			Air & Slump tests are required when cylinders are made & as judged necessary to insure adequate control		During placement operations	
		Slump GDT-27						
	Fly Ash	Fineness M295	DOT-175		QPL-30			
		Activity M295						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE			
	Epoxy Adhesive	Soundness <i>M295</i>	Misc. DOT- 168		QPL-15				
		Density <i>M295</i>							
		Chemical <i>M295</i>							
		Pot Life <i>GDT-58</i>							
		Bond Strength <i>GDT-58</i>							
		Shelf Life							
	Condition								
442									
SEALING ROADWAY & BRIDGE JOINTS	Silicone Sealant	Tensile Stress <i>ASTM D412</i>	Misc. DOT- 168		QPL-66		Stock		
		Durometer <i>ASTM D2240</i>							
		Bond <i>GDT-106</i>							
		Tack Free Time <i>GDT-106</i>							
		Extrusion <i>GDT-106</i>							
		Non-Volatile <i>GDT-106</i>							
		Specific Gravity <i>ASTM D792</i>							
		Adhesion <i>GDT-106</i>							
		Resistance <i>ASTM C793</i>							
	Epoxy Adhesive	Pot Life <i>GDT-58</i>	Misc. DOT- 168		QPL-15 or 1 sample per batch, per Type		Stock		
		Bond Strength <i>GDT-58</i>							
		Shelf Life							
		Elongation <i>GDT-58</i>							
		Hardness <i>ASTM D2240</i>							
		Sag <i>T237</i>							
		Wet Bond <i>T137</i>							
	Bond Breakers – Rods	Density <i>ASTM D1622</i>	Misc. DOT- 168	5 ft	One per Project & Certified Mill Test Report		Stock		
		Tensile Strength <i>ASTM D1623</i>							
		Water Absorption <i>ASTM C1016</i>							
	Bond Breakers - Tape	Thickness	Misc. DOT- 168	5 ft	One per Project & Certified Mill Test Report		Stock		
	445								
	WATERPROOFING PAVEMENT JOINTS & CRACKS	Waterproofing Membranes for Pavement Joints & Cracks	Permeability <i>GDT-69</i>	Misc. DOT- 168		QPL-22		Stock	
			Breaking Factor <i>ASTM D882</i>						
Heat Resistance <i>GDT-69</i>									
Puncture Resistance <i>ASTM E154</i>									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE			
		Elongation <i>ASTM D882</i>							
		Pliability <i>ASTM D146</i>							
		Adhesion <i>GDT-69</i>							
		Thickness							
446									
PAVEMENT REINFORCEMENT FABRIC	High Strength Pavement Reinforcement Fabric	Tensile Strength <i>ASTM D412</i>	Misc. DOT- 168		QPL-40		Stock		
		Elongation <i>ASTM D412</i>							
		Density <i>ASTM E12</i>							
		Weight per Gallon <i>ASTM D70</i>							
		Softening Point <i>ASTM D36</i>							
		Caliper <i>ASTM D1777</i>							
		Specific Gravity <i>ASTM D80</i>							
		Pliability <i>ASTM D146</i>							
		Width							
		Weight							
	Pavement Reinforcement Fabric – Type I or II	Tensile Strength <i>ASTM D4632</i>	Misc. DOT- 168		QPL-40		Stock		
		Elongation at Break <i>ASTM D4632</i>							
		Asphalt Retention <i>GDT-95</i>							
	Bituminous Tack	Asphalt T-315		(2) 1 pt.	QPL-7		from Distributor		
	448								
	PORTLAND CEMENT CONCRETE END DAMS & PATCHES	Concrete	Compressive Strength GDT-35 & GDT-22	DOT-319		One set of 4 for each placement date. (2 for 1 day, 2 for 3 day)			
Air Content <i>GDT-26 & GDT-32</i>									
Slump <i>GDT-27</i>					Air, Slump & Mix Temperature tests are required when cylinders are made & as judged necessary to insure adequate controls				
Mix Temperature <i>GDT-122</i>									
Epoxy Adhesive		Pot Life <i>GDT-58</i>	Misc. DOT- 168	1 kit	QPL-15 or 1 sample per batch, per Type		Stock		
		Elongation <i>GDT-58</i>							
		Bond Strength <i>GDT-58</i>							
		Hardness <i>ASTM D2240</i>							
		Sag Test <i>T237</i>							
		Wet Bond Test <i>T237</i>							
Silicone		Tensile Stress <i>ASTM D412</i>	Misc. DOT-		QPL-66				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
	Sealant	Durometer ASTM D2240	168					
		Bond GDT-106						
		Tack Free Time GDT-106						
		Extrusion GDT-106						
		Non-Volatile GDT-106						
		Specific Gravity ASTM D792						
		Adhesion GDT-106						
		Resistance ASTM C793						
	Preformed Foam Joint Filler	Specification 833.2.10	Misc. DOT- 168		QPL-20			
	Portland Cement	Air Content T137	DOT-175		QPL-3			
		Fineness M85						
		Autoclave M85						
		Compressive Strength M85						
		Vicat T131						
		Chemical M85						
	Portland Pozzolan Cement	Air Content T137	DOT-175		QPL-3			
		Fineness M240						
		Autoclave M240						
		Compressive Strength M240						
		Vicat T131						
		Chemical M240						
	Fine Aggregate	Gradation T27	DOT-658	20 lbs.	One per 500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-1 Sources, 1 per month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
		Sand Equivalent GDT-63 Minus No. 200 T11						
	Coarse	Wash 200 T11	DOT-658	45 lbs.	One per 1,500 tons	QPL-2 Sources, 1		

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE			
	Aggregate	Gradation T27			based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	per month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Fly Ash	Fineness M295	DOT-175		QPL-30				
		Activity M295							
		Soundness M295							
		Density M295							
		Chemical M295							
	Epoxy Adhesive	Pot Life GDT-58	DOT-168		QPL-15				
		Bond Strength GDT-58							
		Shelf Life							
		Condition							
	450								
	PRESSURE GROUTING PORTLAND CEMENT CONCRETE PAVEMENT	Concrete Grout							
		Portland Cement	Air Content T137	DOT-175		QPL-3			
Fineness M85									
Autoclave M85									
Compressive Strength M85									
Vicat T131									
Chemical M85									
Calcium Chloride		Specification M144	DOT-319						
Water		Quality of Water to be Used in Concrete T26	DOT-088	1 qt.	One per unpotable Source, per month		Enough in advance so that results are known before use	*Non-metal container	
Fly Ash		Fineness M295	DOT-175		QPL-30				
		Activity M295							
		Soundness M295							
		Density M295							
		Chemical M295							
Fine Aggregate		Gradation T27	DOT-658	20 lbs.	One per 500 tons	QPL-1 Sources, 1	Stock	If Lime or Fly Ash is to be	

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
		Sand Equivalent GDT-63 Minus No. 200 T11			based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	per month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		added, sample Total Mixture of Fine Aggregate as indicated.
	Complete Mixture	Flow of Grout GDT-84			One per day of operation	Observe 1 per Project	During pumping operation	
		Penetration Resistance ASTM C403			One per Project <u>or</u> enough to insure proper setting time			
	Agricultural Lime				Pre-approved by Central Lab			
	Mineral Filler	Gradation GDT-22						
		Plasticity Index T90						
451								
PATCHING PORTLAND CEMENT CONCRETE PAVEMENT	<u>24-Hour Concrete</u>							
	Concrete	Compressive Strength GDT-35 & T22	DOT-319		One set for 4 of each placement date. (2 for 1 day, 2 for 3 day) Air, Slump & Mix Temperature tests are required when cylinders are made & as judged necessary to insure adequate controls.			Cylinder frequency & curing in accordance with Section 504 of the Specifications
		Air Content GDT-26 & GDT-35						
		Slump GDT-27						
		Mix Temperature GDT-122						
	Portland Cement	Air Content T137	DOT-175		QPL-3			
		Fineness M85						
		Autoclave M85						
		Compressive Strength M85						
		Vicat T131						
		Chemical M85						
	Fine Aggregate	Gradation T27	DOT-658	20 lbs.	One per 500 tons based upon QPL-1,	QPL-1 Sources, 1 per month, per active	Stock or Conveyor Belt	
		Wash 200 T11						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
		Sand Equivalent GDT-63			except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
	Coarse Aggregate	Wash 200 T11	DOT-658	35 lbs.	One per 1,500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-2 Sources, 1 per month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	Stock or Conveyor Belt	
		Gradation T27						
	Calcium Chloride	Specification M144	DOT-319					
	Water	Quality of Water to be Used in Concrete T26	DOT-088	1 qt.	One per unpotable Source, per month		Enough in advance so that results are known before use	*Non-metal container
	Epoxy Adhesive	Pot Life GDT-58	Certification		QPL-15			
		Bond Strength GDT-58						
		Shelf Life						
		Condition						
	Silicone Sealant	Tensile Stress ASTM D412	Certification		QPL-66			
		Durometer ASTM D2240						
		Bond GDT-106						
		Tack Free Time GDT-106						
		Extrusion GDT-106						
		Non-Volatile GDT-106						
		Specific Gravity ASTM D792						
		Adhesion GDT-106						
		Resistance ASTM D793						
	Polyethylene Foam	Cell Structure	Certification		QPL-20			
		Compression ASTM D1752						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
	Rapid Setting Patching Material	Recovery ASTM D1752						
		Water Absorption ASTM D1752						
		Extrusion ASTM D1752						
		Flow of Mortar ASTM C109	Certification		QPL-27		Stock	
		Flexural Strength T97						
		Compressive Strength ASTM C109 or ASTM C31						
		Absorption ASTM C140						
		Chlorides T260						
		Shear Bond Section 934.03						
		Freeze-Thaw Durability Certification						
	Epoxy Concrete				Mix Designs submitted to the Central Lab for approval			
452								
FULL DEPTH SLAB REPLACEMENT	Concrete	Compressive Strength GDT-35 & T22	DOT-319	6' X 12" cysl.	One set of 4 for each placement date. (2 for 1 day, 2 for 3 day) Air & Slump tests are required when cylinders are made & as judged necessary to insure adequate controls			
		Air Content GDT-26						
		Slump GDT-27						
		Mix Temperature GDT-122						
	Portland Cement	Air Content T137	DOT-175		QPL-3			
		Fineness M85						
		Autoclave M85						
		Compressive Strength M85						
		Vicat T131						
		Chemical M85						
	Fine Aggregate	Gradation T27	DOT-658		One per 500 tons based upon QPL-1,	QPL-1 Sources, 1 per month, per active		
		Minus No.200 T11						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
		Sand Equivalent GDT-63			except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
	Coarse Aggregate	Wash 200 T11	DOT-658		One per 1,500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-2 Sources, 1 per month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
		Gradation T27						
	Steel Bars for Reinforcement	Number M31M	DOT-166	1 pc @ 24" per size	QPL-12 & QPL-61 w/Certified Mill Test Reports.	Random sampling at Fabricator	Supplier,Fabricator or Jobsite storage	
		Weight M31M						
		Dimensions M31M						
		Deformation Spacing M31M						
		Height & Gap M31M						
		Tensile Strength T244						
		Yield Strength T244						
		Elongation T244						
		Bend Test T285						
		Chemical M31M						
	Dowel Bars	Number M31M	DOT-166A	3 bars in basket assembly	QPL-43 w/Certified Mill Test Report			*N/A for Plain Dowel Bars
		Weight M31M						
		Dimensions M31M						
		Deformation Spacing M31M*						
		Height & Gap M31M*						
		Tensile Strength T244						
		Yield Strength T244						
		Elongation T244						
		Bend Test T285						
		Chemical M31M						
		Coating 853.08						
	Silicone	Tensile Stress ASTM D412	Certification		QPL-66			

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY		LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE		
	Sealant	Durometer ASTM D2240						
		Bond GDT-106						
		Tack Free Time GDT-106						
		Extrusion GDT-106						
		Non-Volatile GDT-106						
		Specific Gravity ASTM D792						
		Adhesion GDT-106						
		Resistance ASTM C793						
	Epoxy Adhesive	Pot Life GDT-58	Certification	1 kit	QPL-15 <u>or</u> one sample per batch, per Type		Stock	
		Bond Strength GDT-58						
		Shelf Life						